

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
15 November 2001 (15.11.2001)

PCT

(10) International Publication Number
WO 01/086486 A3(51) International Patent Classification⁷: **G06F 9/50**,
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(21) International Application Number: PCT/US01/15099

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(22) International Filing Date: 9 May 2001 (09.05.2001)

(25) Filing Language: English

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(26) Publication Language: English

(30) Priority Data:

60/202,975	9 May 2000 (09.05.2000)	US
60/208,011	26 May 2000 (26.05.2000)	US
60/209,430	2 June 2000 (02.06.2000)	US
60/209,140	2 June 2000 (02.06.2000)	US
60/209,525	5 June 2000 (05.06.2000)	US
09/656,588	7 September 2000 (07.09.2000)	US

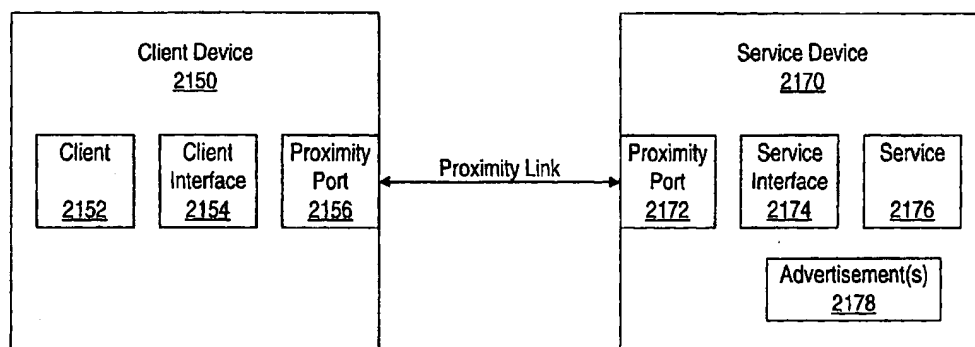
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).(71) Applicant: **SUN MICROSYSTEMS, INC.** [US/US]; 901 San Antonio Road, Palo Alto, CA 94303 (US).(72) Inventors: **SLAUGHTER, Gregory, L.**; 3326 Emerson St., Palo Alto, CA 94306 (US). **SAULPAUGH, Thomas, E.**; 6938 Bret Harte Dr., San Jose, CA 95120 (US). **TRAVERSAT, Bernard, A.**; 2055 California St., Apt. 402, San Francisco, CA 94109 (US). **DUIGOU, Michael,**

Published:

— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR PROXIMITY DISCOVERY OF SERVICES



(57) Abstract: A service discovery protocol may allow clients to discover services on a proximity basis. A service device that provides one or more computing services may support a proximity communication link. A client device may form a proximity communication link with the service device. The client device may directly request from the service device a document that describes an interface to access a service provided by the service device. The service device may provide the document directly to the client device over proximity communication link. The document may include a service advertisement for the service, and the service advertisement may include a schema specifying an interface to at least a portion the service. The client device may use the information from the document to access the service. The client device may support a transport connection in addition to the proximity communication link, and the client device may make the document available to other devices over the transport connection. Thus, the client device may provide a bridge from the transport connection to the proximity communication link so that other devices from a distributed computing environment may access the service.



(88) Date of publication of the international search report:
21 November 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 01/15099

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F9/50 G06F17/30 G06F9/46

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MUNSON M ET AL: "Flexible internetworking of devices and controls" INDUSTRIAL ELECTRONICS SOCIETY, 1999. IECON '99 PROCEEDINGS. THE 25TH ANNUAL CONFERENCE OF THE IEEE SAN JOSE, CA, USA 29 NOV.-3 DEC. 1999, PISCATAWAY, NJ, USA, IEEE, US, 29 November 1999 (1999-11-29), pages 1139-1145, XP010366788 ISBN: 0-7803-5735-3 page 1141, left-hand column, line 25 -page 1142, left-hand column, line 35 page 1143, right-hand column, line 1 -page 1144, right-hand column, last line --- -/--	1-4, 7-9, 16-22, 25-27, 34-42, 45-47, 52-54

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

3 September 2002

Date of mailing of the international search report

25/09/2002

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/15099

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>PAGUREK B ET AL: "MANAGEMENT OF ADVANCED SERVICES IN H.323 INTERNET PROTOCOL TELEPHONY"</p> <p>PROCEEDINGS IEEE INFOCOM 2000. THE CONFERENCE ON COMPUTER COMMUNICATIONS. 19TH. ANNUAL JOINT CONFERENCE OF THE IEEE COMPUTER AND COMMUNICATIONS SOCIETIES. TEL AVIV, ISRAEL, MARCH, 26-30, 2000, PROCEEDINGS IEEE INFOCOM. THE CONFERENCE ON COMPUTER COMMU,</p> <p>vol. 3 OF 3. CONF. 19, 26 March 2000 (2000-03-26), pages 91-100, XP001004237</p> <p>ISBN: 0-7803-5881-3</p> <p>page 92, right-hand column, line 30 -page 97, left-hand column, line 35</p>	1-54
A	<p>US 5 724 588 A (ATKINSON ROBERT G ET AL)</p> <p>3 March 1998 (1998-03-03)</p> <p>column 6, line 48 -column 8, line 44</p>	1, 19, 37-39
A	<p>HODES T D ET AL: "COMPOSABLE AD HOC LOCATION-BASED SERVICES FOR HETEROGENEOUS MOBILE CLIENTS"</p> <p>WIRELESS NETWORKS, ACM, US, vol. 5, no. 5, October 1999 (1999-10), pages 411-427, XP000902495</p> <p>ISSN: 1022-0038</p> <p>page 414, left-hand column, line 20 -page 417, left-hand column, line 4</p>	1, 19, 37-39
A	<p>K. EDWARDS: "Core Jini"</p> <p>June 1999 (1999-06), PTR PRENTICE HALL, 1ST EDITION XP002212106</p> <p>page 68, line 18 -page 76, line 13</p>	1, 19, 37-39
A	<p>TREVOR J ET AL: "The use of adapters to support cooperative sharing"</p> <p>CSCW. PROCEEDINGS OF THE CONFERENCE ON COMPUTER SUPPORTED COOPERATIVE WORK, XX, XX,</p> <p>22 October 1994 (1994-10-22), pages 219-230, XP002174728</p> <p>page 222, left-hand column, line 20 -page 223, left-hand column, last line</p>	1, 12-15, 19, 30-33, 37-39, 50, 51

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/15099

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